

WHAT IS CLAIMED IS:

1. A manufacturing method of a light emitting device including a pixel portion provided with a plurality of light emitting elements having a first electrode, an organic compound layer in contact with a top portion of the first electrode, and a second  
5 electrode in contact with a top portion of the organic compound layer, between a pair of substrates, at least one of which is transparent, the manufacturing method of a light emitting device comprising the steps of:

forming a pixel portion over one of the substrates;  
figuring a first sealing material having a bar shape on the other  
10 substrate;

applying a plurality of drops of a second sealing material having lower viscosity than the first sealing material to a region surrounded by the first sealing material so that an amount of drops differs depending on a region to be applied to; and

pasting the pair of substrates so that the first sealing material is  
15 arranged to surround the pixel region, and a space between at least a pair of the first sealing materials is filled with the second sealing material.

2. A manufacturing method of a light emitting device according to claim 1, wherein the second sealing material is applied at least to a central part of a pixel portion  
20 and to a position surrounding the central part with a constant distance therefrom; and an amount of the second sealing material applied to the central part is larger than an amount applied to the position surrounding the central part.

3. A manufacturing method of a light emitting device according to claim 1,  
25 wherein the first sealing material has opening portions at least at four corners.

4. A manufacturing method of a light emitting device according to claim 1, wherein the first sealing material includes a spacer for maintaining a gap between a pair of substrates.

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5. A manufacturing method of a light emitting device according to claim 1, wherein the second sealing material is exposed at the opening portion, and a peripheral border of the exposed second sealing material is curved.

5 6. A manufacturing method of a light emitting device according to claim 1, wherein the second sealing material is exposed at the opening portion, and peripheral border of the exposed second sealing material protrudes from the opening portion.

10 7. A manufacturing method of a light emitting device including a pixel portion provided with a plurality of light emitting elements having a first electrode, an organic compound layer in contact with a top portion of the first electrode, and a second electrode in contact with a top portion of the organic compound layer, between a pair of substrates, one of which is transparent, the manufacturing method of a light emitting device comprising the steps of:

15 forming a pixel portion on one of the substrates;  
figuring a first sealing material having a bar shape on the other

substrate;

20 applying a plurality of drops of a second sealing material having lower viscosity than the first sealing material to a region surrounded by the first sealing material so that an amount of drops differs depending on a region to be applied to;

filling a space between the first sealing materials facing one another, by spreading the second sealing material under pressure in the case where a pair of the substrates is pasted together so that the pixel region is surrounded by the first sealing material; and

25 curing the first sealing material and the second sealing material.

8. A manufacturing method of a light emitting device according to claim 7, wherein the curing of the first sealing material and the second sealing material is performed by exposure to ultraviolet radiation or by heat.

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9. A manufacturing method of a light emitting device according to claim 7, wherein a pair of the substrates is divided vertically to the first sealing material after curing the first sealing material and the second sealing material.

5           10. A manufacturing device comprising:

                  a pasting device which mates a pair of substrates together with a predetermined distance therebetween;

                  two substrate holders facing one another;

                  means for squashing a sealing material by applying pressure to put the  
10   two substrate holders together; and

                  wherein at least one of the two substrate holders is covered with a film comprising fluoroplastics.

                  11. A manufacturing device according to claim 10, wherein the film comprises  
15   a material selected from the group consisting of polytetrafluoroethylene, tetrafluoroethylene-hexafluoropropylene copolymer, polychlorotrifluoroethylene, tetrafluoroethylene-ethylene copolymer, polyvinyl fluoride, and polyvinylidene fluoride.

                  12. A manufacturing device comprising:

20                   a pasting device which mates a pair of substrates together with a predetermined distance therebetween;

                  two substrate holders facing one another;

                  means for squashing a sealing material by applying pressure to put the  
two substrate holders together; and

25                   a two-sided tape for securing substrates to the two substrate holders

                  13. A manufacturing device according to claim 12, wherein at least one of the  
two substrate holders are formed of a material transparent to light, and a pair of  
substrates is pasted together followed by exposing a sealing material to light through  
30   one substrate holder for curing the sealing material.

14. A manufacturing device according to claim 12, wherein the two-sided tape is a tape in which adhesion is weakened by light exposure, and a pair of substrates is pasted together, followed by exposing a sealing material to light through a substrate holder to cure for curing the sealing material, and concurrently, adhesion of the two-sided tape is weakened.

15. A manufacturing device according to claim 14, wherein at least one of the two substrate holders are formed of a material transparent to light, and light which is emitted from a light source and transmits through one substrate holder reflects off a surface of the other substrate holder.

16. A manufacturing device according to claim 15, wherein at least one of the two substrate holders is provided with a heating means, and a sealing material is heat cured after a pair of substrates is pasted together.

17. A manufacturing method of a light emitting device comprising the steps of :  
forming a pixel portion over a first substrate;  
forming a first sealing material having a bar shape on a second substrate;  
applying a plurality of drops of a second sealing material having lower viscosity than the first sealing material to a region surrounded by the first sealing material so that an amount of drops differs depending on a region to be applied to; and  
pasting the pair of substrates so that the first sealing material is arranged to surround the pixel region, and a space between at least a pair of the first sealing materials is filled with the second sealing material.

18. A manufacturing method of a light emitting device comprising the steps of :  
forming a pixel portion over a first substrate;  
forming a first sealing material having a bar shape on a second

substrate;

applying a second sealing material having lower viscosity than the first sealing material to a first region and a second region which are surrounded by the first sealing material so that an amount of drops to the first region is larger than that to the second region; and

pasting the pair of substrates so that the first sealing material is arranged to surround the pixel region, and a space between at least a pair of the first sealing materials is filled with the second sealing material.

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